

Attorney's Docket No. 621-31**COMBINED DECLARATION AND POWER OF ATTORNEY**(ORIGINAL, DESIGN, NATIONAL STAGE OF PCT, SUPPLEMENTAL,
DIVISIONAL, CONTINUATION OR CIP)

As a below named inventor, I hereby declare that:

TYPE OF DECLARATIONThis declaration is of the following type: *(check one)*☒ Original
☐ Supplemental
☐ Design☐ National Stage PCT
☐ Divisional
☐ Continuation
☐ Continuation-in-Part (CIP)**INVENTORSHIP IDENTIFICATION**

NOTE: If the inventors are each not the inventors of all the claims an explanation of the facts, including the ownership of all the claims at the time the last claimed invention was made, should be submitted.

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

CRYPTOGRAPHIC KEY MANAGEMENT SCHEMEthe specification of which: *(complete (a), (b) or (c))*(a) ☐ is attached hereto.(b) ☒ was filed on September 16, 1998 as
☐ Serial No. 09/154,133 or
☐ Express Mail No. _____, as Serial No. not yet known
and was amended on _____. *(If applicable)*(c) ☐ was described and claimed in PCT International Application No. PCT/
filed on _____ and as amended under PCT Article 19 on _____. *(If any)***ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR**

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above, and that the filing of said specification, if heretofore filed, was authorized by me.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

CLAIM OF PRIORITY OF EARLIER FOREIGN APPLICATION(S) UNDER 35 U.S.C. §119(a)-(d)

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

(List prior foreign/PCT application(s) filed within 12 months (6 months for design) prior to this U.S. application.)

NOTE: Where item (c) is entered above and the International Application which designated the U.S. claimed priority check item (e), enter the details below and make the priority claim.

COUNTRY (or PCT)	APPLICATION NO.	DATE OF FILING (Day/Month/Year)	PRIORITY CLAIMED UNDER 35 USC §119
			<input type="checkbox"/> YES <input type="checkbox"/> NO
			<input type="checkbox"/> YES <input type="checkbox"/> NO

CLAIM FOR BENEFIT OF PRIOR U.S. PROVISIONAL APPLICATION(S) UNDER 35 U.S.C. §119(e)

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below:

(List prior U.S. provisional applications.)

PROVISIONAL APPLICATION NO.	FILING DATE (Day/Month/Year)
60/059,082	09/16/97
60/059,839	09/16/97

CLAIM FOR BENEFIT OF EARLIER U.S./PCT APPLICATION(S) UNDER 35 U.S.C. 120

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in such prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application:

(List prior U.S. applications or PCT international applications designating the U.S. for benefit under 35 U.S.C. §120.)

U.S. APPLICATIONS		STATUS (Check One)		
U.S. SERIAL NO.	U.S. FILING DATE (Day/Month/Year)	Patented	Pending	Abandoned
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

PCT APPLICATIONS DESIGNATING THE U.S.			STATUS (Check One)		
PCT APPLN. NO.	PCT FILING DATE (Day/Month/Year)	U.S. SERIAL NOS. ASSIGNED (If any)	Patented	Pending	Abandoned
PCT/			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PCT/			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

35 USC 119 PRIORITY CLAIM, IF ANY, FOR ABOVE LISTED U.S./PCT APPLICATIONS

PRIORITY APPLICATION NO.	PRIORITY COUNTRY	FILING DATE (Day/Month/Year)	ISSUE DATE (Day/Month/Year)

POWER OF ATTORNEY

As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office in connection therewith:

Charles R. Hoffmann, Reg. No. 24,102; Ronald J. Baron, Reg. No. 29,281; Gerald T. Bodner, Reg. No. 30,449; Alan M. Sack, Reg. No. 31,874; A. Thomas Kammer, Reg. No. 28,226; Arlene D. Morris, Reg. No. 32,657; R. Glenn Schroeder, Reg. No. 34,720; Glenn T. Henneberger, Reg. No. 36,074; Irving N. Feit, Reg. No. 28,601; Jessica H. Tran, Reg. No. 40,846; Anthony E. Bennett, Reg. No. 40,910; Gregory W. Bachmann, Reg. No. 41,593; Steven T. Zuschlag, Reg. No. 43,309; Susan A. Sipos, Reg. No. 43,128; William D. Schmidt, Reg. No. 39,492; Kevin E. McDermott, Reg. No. 35,946; and Robert C. Morriss, Reg. No. 42,910 each of them of HOFFMANN & BARON, LLP, 350 Jericho Turnpike, Jericho, New York 11753; and Daniel A. Scola, Jr., Reg. No. 29,855; Salvatore J. Abbruzzese, Reg. No. 30,152; Kirk M. Miles, Reg. No. 37,891; Kevin C. Hooper, Reg. No. 40,402; and Robert F. Chisholm, Reg. No. 39,939, each of them of HOFFMANN & BARON, LLP, 1055 Parsippany Boulevard, Parsippany, New Jersey

07054.

PLEASE SEND CORRESPONDENCE TO:

Gerald T. Bodner, Esq.
HOFFMANN & BARON, LLP
350 Jericho Turnpike
Jericho, NY 11753

PLEASE DIRECT TELEPHONE CALLS TO:

Gerald T. Bodner
(516) 822-3550

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

SIGNATURE(S)

Full Name of Sole or First Inventor: Timothy OBER

Country of Citizenship: U.S.

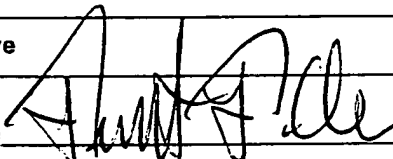
Residence Address: 9 Birch Lane, Atkinson, NH 03811

Post Office Address: Same as Above

Date:

11/23/98

Inventor's signature



Full Name of Second Joint Inventor: Peter REED

Country of Citizenship: U.S.

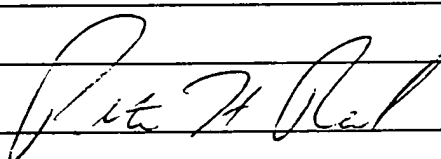
Residence Address: 1 Bancroft Avenue, Beverly, MA 01915

Post Office Address: Same as Above

Date:

11/23/98

Inventor's signature



NOTE: All above spaces identifying inventors must be completed or deleted before any inventor executes this application

Attorney's Docket No.: 621-31

PATENT

For: ☒ U.S. and/or ☒ Foreign Rights
For: ☒ U.S. Application;
☐ U.S. Provisional Application;
☐ U.S. Patent; or
☐ PCT Application
By: ☒ Inventors or ☐ Present Owners

ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNORS: (inventor(s) or person(s) or entity(ies) who own the invention)

Timothy OBER
9 Birch Lane
Atkinson, NH 03811
U.S.
Nationality

Peter REED
1 Bancroft Avenue
Beverly, MA 01915
U.S.
Nationality

(If assignment is by person or entity to whom invention was previously assigned and this was recorded in PTO add the following)

Recorded on _____ Reel _____
Frame _____

hereby sells, assigns and transfers to

ASSIGNEE:

Information Resource Engineering, Inc.
(Type or print name of ASSIGNEE)

8029 Corporate Drive
Address

Baltimore, Maryland 21236
U.S.A.
Nationality

and the successors, assigns and legal representatives of the ASSIGNEE,

(complete one of the following)

- ☒ the entire right, title and interest
☐ an undivided _____ percent (____%) interest

for the United States and its territorial possessions

☒ and in all foreign countries, including all rights to claim priority,
in and to any and all improvements which are disclosed in the invention entitled:

CRYPTOGRAPHIC KEY MANAGEMENT SCHEME

and which is found in

(check and complete (a), (b), (c), (d), (e), (f), or (g))

- (a) ☐ U.S. patent application executed on even date herewith
(b) ☐ U.S. patent application executed on _____
(c) ☐ U.S. provisional application naming the above inventor(s) for the above-identified invention.
 ☐ Express Mail label No.: _____, mailed: _____
 ☐ To comply with 37 CFR 3.21 for recordal of this assignment, I, an ASSIGNOR signing below, hereby authorize and request my attorney to insert below the filing date and application number when they become known
(d) ☒ U.S. application Serial No. 09/ 154,133 filed on September 16, 1998
(e) ☐ International application No. PCT/___/_____
(f) ☐ U.S. Patent No. _____ issued _____
 ☐ A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.
(g) ☒ and any legal equivalent thereof in a foreign country, including the right to claim priority

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to Letters Patent any re-issue or re-examination thereof.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and

deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I/We have hereunto set hand and seal this

WARNING: Date of signing must be the same as the date of execution of the application if item (a) was checked above.

Date: X 1/23/98
Date of signing

X [Signature]
Timothy Ober

Date: X 1/23/98
Date of signing

X [Signature]
Peter Reed

(If ASSIGNOR is a legal entity, complete the following information)

Type or print the name of the above person
authorized to sign on behalf of ASSIGNOR

Title

NOTE: No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized then it will only be prima facie evidence of execution 35 USC 261. Use next page if notarization is desired.

[] Notarization or Legalization Page Added.

OK
4/13

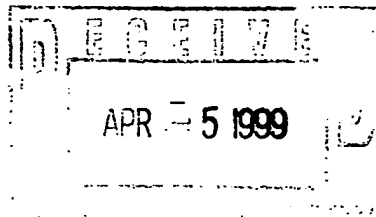


621-31
UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

MARCH 25, 1999

HOFFMANN & BARON, LLP
GERALD T. BODNER, ESQ.
350 JERICHO TURNPIKE
JERICHO, NY 11753

PTAS



100921538A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 12/04/1998

REEL/FRAME: 9635/0366
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

OBER, TIMOTHY

DOC DATE: 11/23/1998

ASSIGNOR:

REED, PETER

DOC DATE: 11/23/1998

ASSIGNEE:

INFORMATION RESOURCE ENGINEERING,
INC.
8029 CORPORATE DRIVE
BALTIMORE, MARYLAND 21236

SERIAL NUMBER: 09154133
PATENT NUMBER:

FILING DATE: 09/16/1998
ISSUE DATE:

12-15-1998

SHEET

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark OfficeMD 12-4-98
Tab settings

To the Honorable Commissioner of

100921538

attached original documents or copy thereof.

1. Name of conveying party(ies):

Timothy Ober
9 Birch Lane
Atkinson, NH 03811Peter Reed
1 Bancroft Avenue
Beverly, MA 01915Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other

Execution Date: 11.23.98

2. Name and address of receiving party(ies):

Name: Information Resource Engineering, Inc.

Internal Address:

Street Address: 8029 Corporate Drive

City: Baltimore State: MD ZIP: 21236

Additional name(s) & address(es) attached? ☐ Yes ☒ No

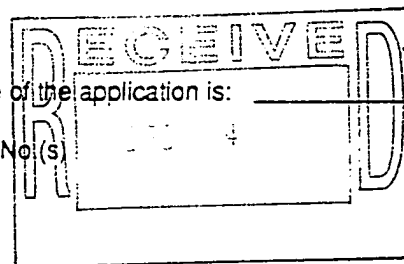
4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

09/154,133

B. Patent No.(s)



09/154,133 00000066 09154133

01/15/98

40.00 UP

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Gerald T. Bodner, Esq.

Internal Address: Hoffmann & Baron, LLP

Street Address: 350 Jericho Turnpike

City: Jericho State: NY ZIP: 11753

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$ 40.00

☒ Enclosed☐ Authorized to be charged to deposit account

8. Deposit account number:

08-2461

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Gerald T. Bodner

Name of Person Signing

Signature

Nov. 30 1998

Date

Our Docket No.: 621-31

Total number of pages comprising cover sheet:

4